

anti-spoofing solution

SS7 option

Orange, a major player in the wholesale market

Take advantage of our in-depth knowledge of the industry resulting from our activities on both retail and wholesale markets. Our dedicated wholesale teams on four continents serve 1,000 mobile operators, international carriers, ISPs and content providers worldwide. You can rely on our seamless backbone network spanning 220 countries and benefit from 400,000 km of fibre optic cable under all oceans including dedicated IP routes. We offer direct interconnections with more than 385 operators in 150 countries for international voice traffic. With 19 research labs on four continents, we are at the forefront of technological advances.

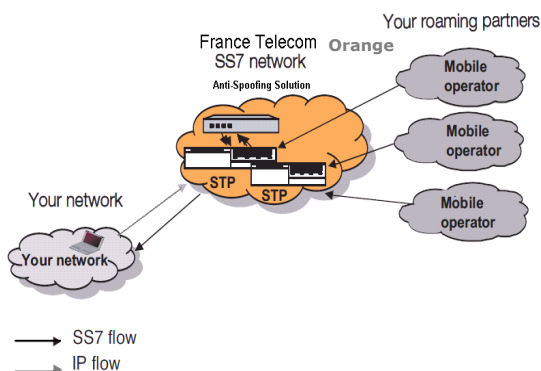
Choose reliability and quality, choose us.



in brief

spoofing: concerns SMS MO traffic sent from a fake MSC/MLR as if it was issued by a subscriber of a PLMN in a roaming situation.

The customer who has his MSISDN faked will be charged for undue fees.



our solution

World leader in roaming signalling Orange has more than 15 years' experience and the widest roaming coverage (over 900 ITU and ANSI destinations) worldwide to offer. Our SS7 offer meets all the needs of mobile operators in terms of quality, security and international coverage with a complete set of services: SMS Control, SS7 MoRe, Prepaid SMS, Anti spoofing, Alliage Short Code and Optimum Roaming.

Our **Anti-spoofing** solution has been developed as a response to the spoofing fraud case as defined by the GSMA, one of the most impacting and frequent attacks against mobile operators.

Our solution protects you from fraudulent incoming international SMS MO traffic.

Our platform makes sure the MSISDN originating the SMS MO is in a real roaming situation.

If fraud is detected, the SMS is blocked.

glossary

IMSI: International Mobile Subscriber Identity

MSISDN: Mobile Station ISDN Number

MSC: Mobile Switching Center

PLMN: Public Land Mobile Network

SMS MO: SMS Mobile Originating

SCCP function: calling/called analysis and translation into international or national signalling address (OPC/DPC) thanks to a translation table

VLR: Visited Location Register



pre-requisites

- Orange needs to manage the SCCP function
- you provide one dedicated Global Title and dedicated IMSI ranges



your benefits

turnkey service

- you avoid the development and the integration of a standalone platform in your network.
- a simple transfer of the new tool: maintenance, provisioning and monitoring of the platform is under the responsibility of Orange.
- a totally-integrated solution: the Anti-spoofing solution is integrated in your SS7 service (in terms of billing and contract).
- a detailed reporting is available via WSE (access to personalized, centralized and secured information through the dedicated Wholesale Solutions Extranet portal).

cash savings

- you can reduce revenue loss, induced by costs of fraudulent SMS.
- you benefit from a monthly fixed fee instead of CAPEX investment.

increased end-user satisfaction

- you increase customer loyalty by preventing billing conflicts.
- you protect your image and reputation.

good relationships with your roaming partners

You avoid disputes with your roaming partners.

Orange

Operating in 35 countries, Orange is one of the world's leading telecommunications operators. The Group has a total customer base exceeding 226 million customers including more than 167 million mobile customers worldwide. Covering Internet, television and mobile services, Orange is among the leaders in Europe for mobile and broadband internet and, under the brand Orange Business Services, is one of the world leaders in providing telecommunication services to multinational companies.

www.orange.com/wholesalesolutions

